ELECTRIC SOLDERING IRON

ABSTRACT OF THE DISCLOSURE

An electric soldering iron useful for heavy duty applications, such as sheet metal lamination, comprises a soldering tip held between two carbon electrodes which are electrically connected through busses to a source of low voltage, variable amperage current. The carbon electrodes are preferably graphite. An additional feature allows the tip to pivot to various angles with respect to the handle to provide optimum comfort and soldering efficiency. The body of the soldering tip is provided with longitudinal grooves into which the shaped carbon electrodes are slid and are secured in place with suitable fasteners, such as bolts. Alternatively, the electrodes may have a contour corresponding to the surface of the body of the soldering tip and are then clamped or otherwise secured to the body. Another option is to use electrodes that are shaped as cylindrical plugs seated in blind recesses in the body of the soldering tip.